

Mid-year Exam: Trig and Geometry

Question 1: Trigonometry

1.1 Solve the following by using your calculator (round to two places where necessary):

1.1.1 $\sin 44^\circ$

1.1.2 $3 \tan(15^\circ + 6^\circ)$

1.1.3 $\operatorname{cosec}^2 70^\circ$

1.1.4 $\sin^2 70^\circ$

1.1.5 $\frac{3 \sin 125^\circ}{\tan 221^\circ \cdot \cos 64^\circ}$

1.1.6 $\frac{1}{\sin(90^\circ - 20^\circ)} - 3 \tan 20^\circ$

1.2 Solve for x in each of the following:

1.2.1 $\frac{2}{\tan x} = 1,34$

1.2.2 $\frac{1}{\cos x} = 1,7$

1.2.3 $\sin\left(\frac{x}{2}\right) = 0,75$

1.2.4 $\sin(2x - 5^\circ) = \cos 10,5^\circ$

1.2.5 $\frac{1}{2} \cos x = 0,214$

1.2.6 $\tan(x - 20^\circ) = 1,43$

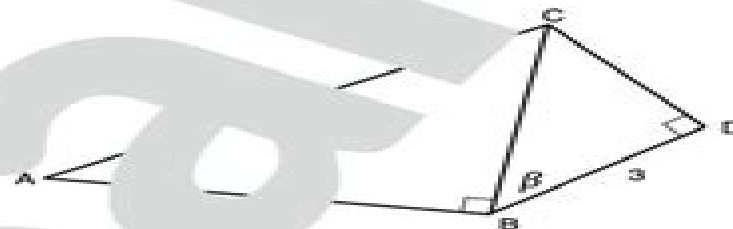
1.3 If $x = 25^\circ$ and $y = 34^\circ$, solve the following:

1.3.1 $\sin^2 x + \cos^2 y$

1.3.2 $\cos(x + y + 20^\circ)$

Question 2:

2.1 In the diagram $AC = 13$ units, $AD = 3$ units. $\angle B\hat{A}$ and $B\hat{D}C$ are right angles.



2.1.1 Determine the length of BC , correct to the nearest whole number.

2.1.2 Determine the value of angle β , correct to two decimal numbers.

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